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[illegible]

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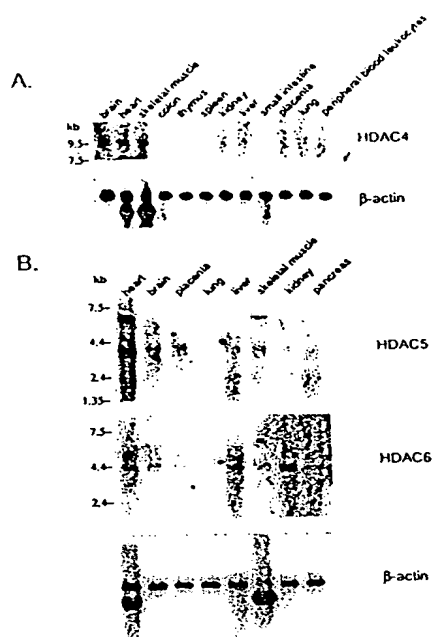
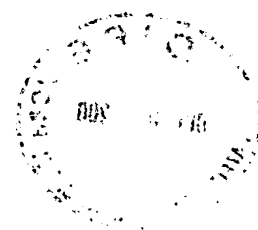
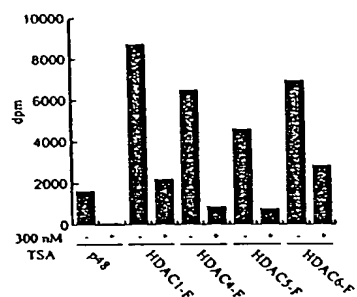


Figure 2



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A.



B.

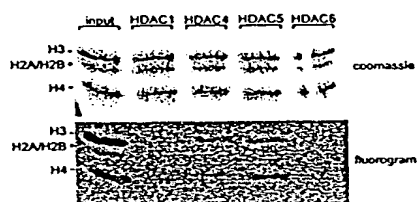


Figure 3



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Figure 4

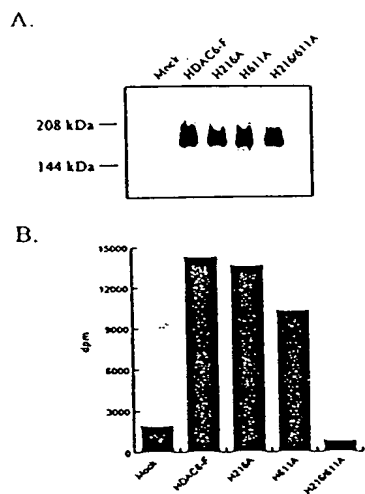




Figure 5

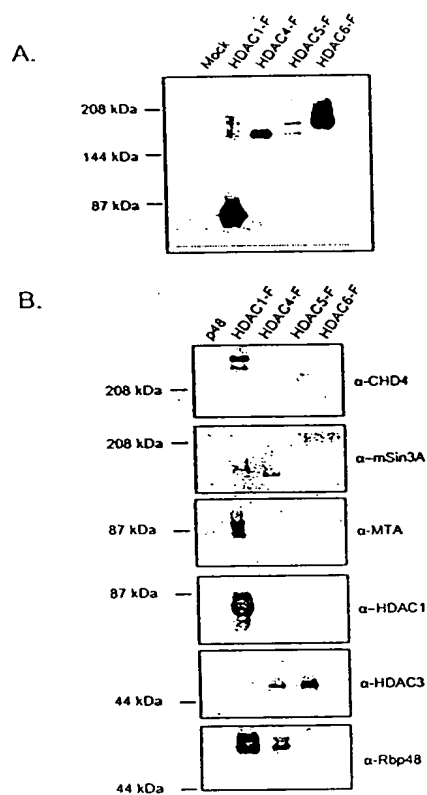


Figure 6

A.

HOMOLOGY REGIONS	INITIAL AA IN HDAC1	CONSENSUS SEQUENCES	EXCEPTIONS
1	99	D (C/T) P (V/I) F HNA	CLASS I CLASS II
2	134	H X X G G X H H A R P P G H H A	CLASS I CLASS II
3	148	S G (F/Y) C X X H G (F/Y) C X X H	CLASS I CLASS II
4	174	D x D x H H G D G V (D/E) D x D x H H G X G T Q	CLASS I CLASS II
5	193	V X T X S H V X (Y/H) S X H	CLASS I CLASS II
6	225	H x P (M/L) X D G I D D X (S/T) Y HNA	CLASS I CLASS II
7	298	x G G G G Y x E G G (Y/H)	CLASS I CLASS II

B.

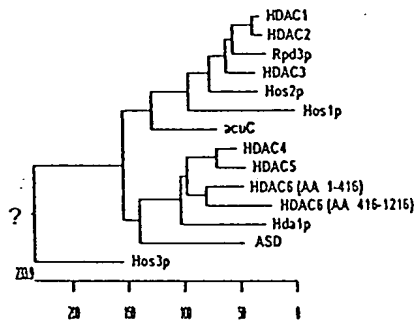


Figure 7

Figure 7A

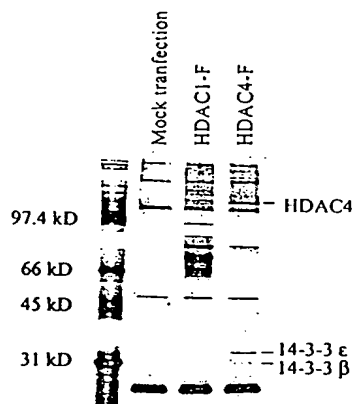
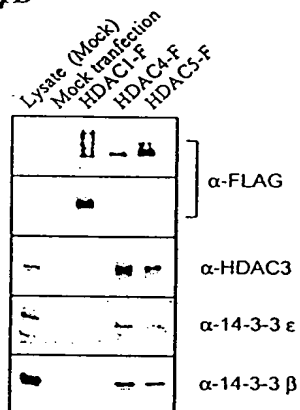


Figure 7B



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Figure 8

Figure 8A

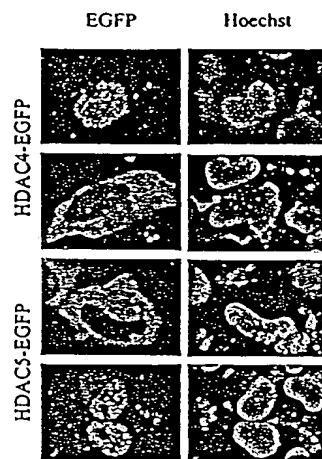


Figure 8B

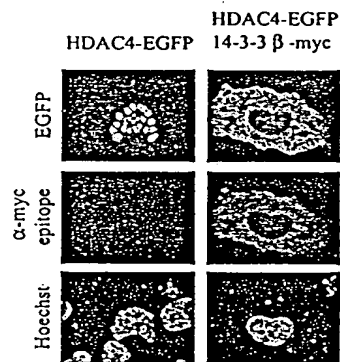


Figure 9

Figure 9A

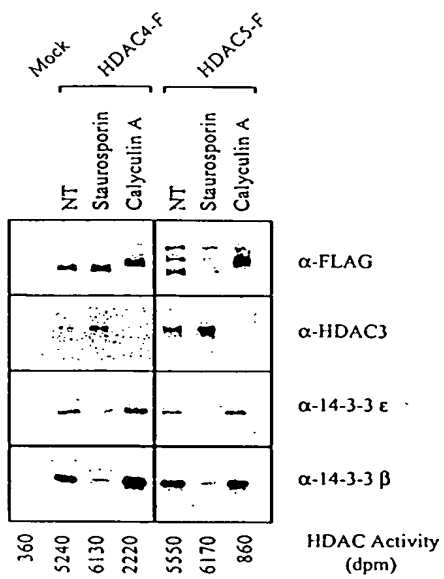


Figure 9B

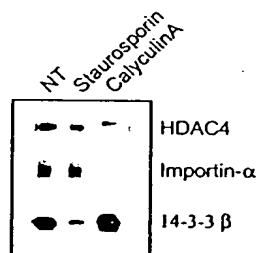
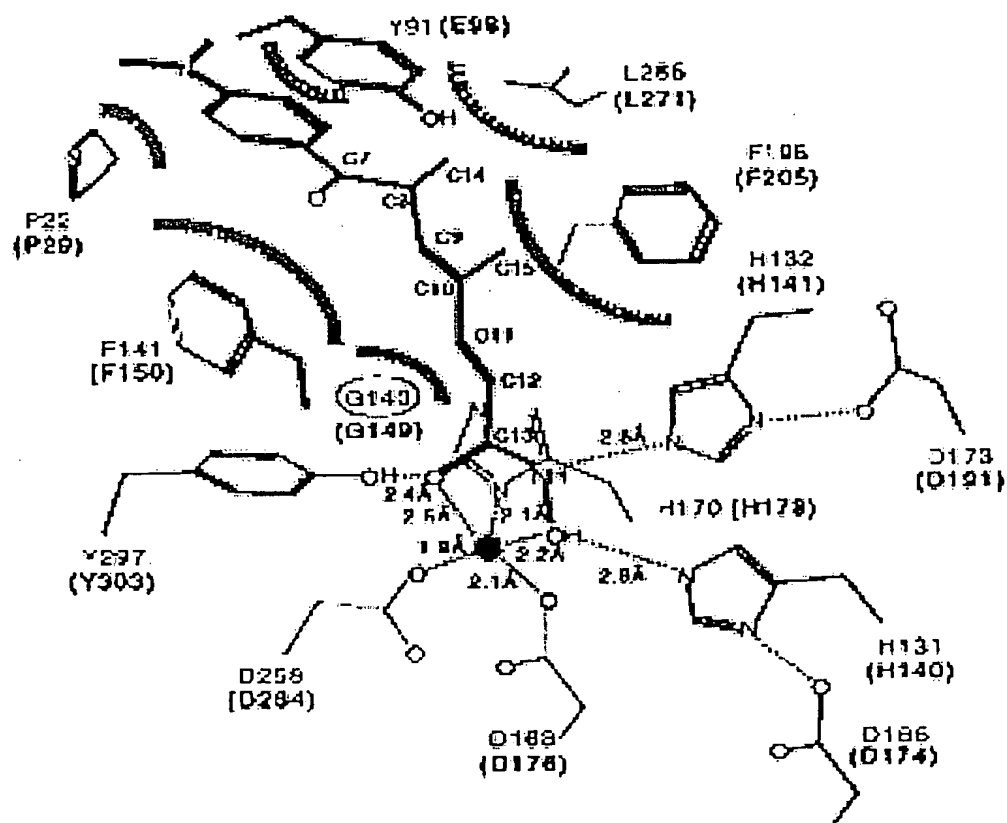


Figure 10



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Figure 11

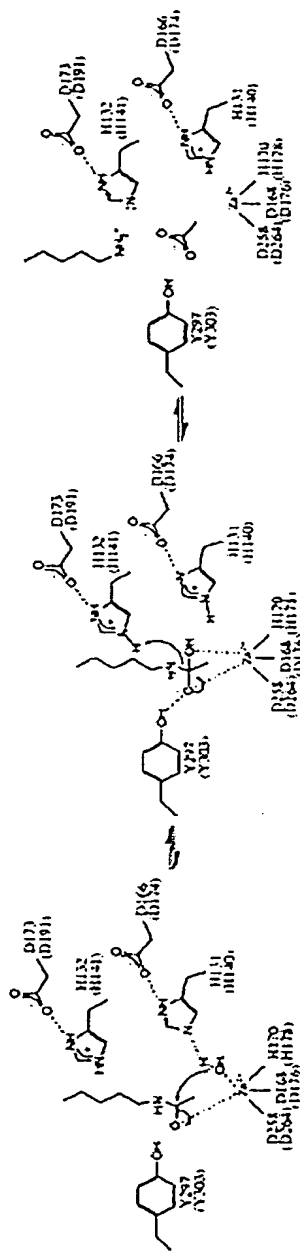
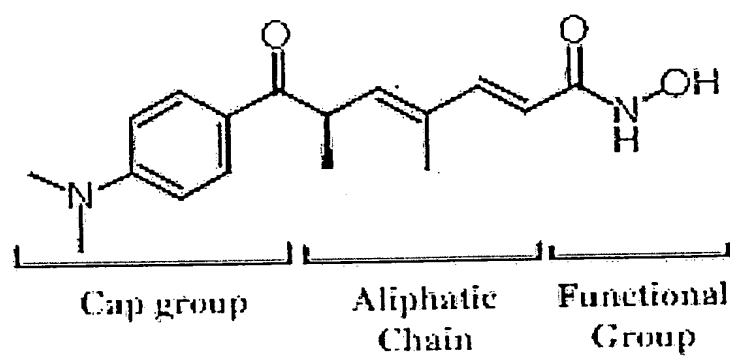


Figure 12



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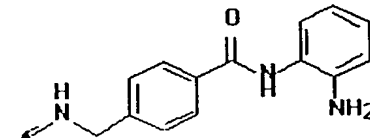
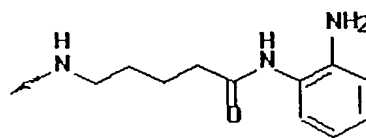
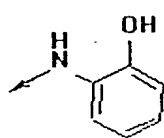
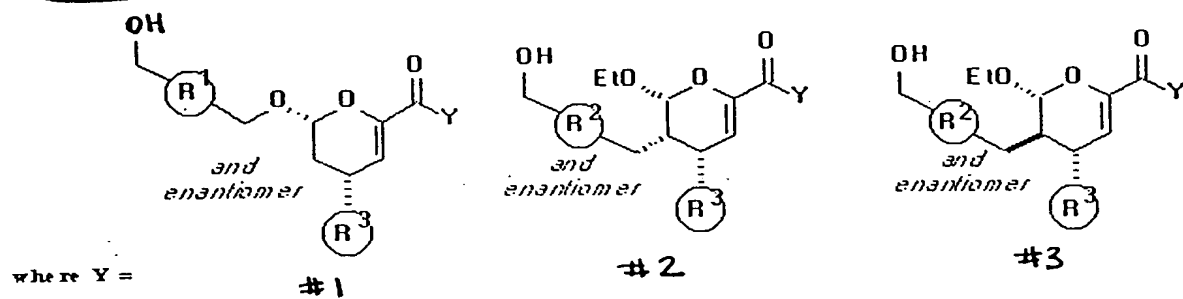
Figure 13

		Residues on rim of channel				Residues in channel					
		122*	123*	124*	125*	126*	127*	128*	129*		
Class I	HDLP	P I	G G Y E N P							Y L	
	HDAC1	P M	G - E D C P							R L	
	HDAC2	P M	G - E D C P							R L	
	HDAC3	P M	G - D D C P							R L	
	HDAC4	A K	G - Y D C P							P M	
Class II	HDAC5	P I	G V D S D T							P L	
	HDAC6(a)	P I	- - - D S							P L	
	HDAC6(b)	P I	- - - D S							P L	
	HDAC7	P I	G V D T D T							P L	
		Residues in active site									
		122*	123*	124*	125*	126*	127*	128*	129*	130*	131*
Class I	HDLP	P A G G M H H A	Y I D I D A H H C D	T D P	G G G Y						
	HDAC1	P A G G L H H A	Y I D I D I H H G D	S D S	G G G Y						
	HDAC2	P A G G L H H A	Y I D I D I H H G D	A D S	G G G Y						
	HDAC3	P A G G L H H A	Y I D I D I H H G D	A D S	G G G Y						
	HDAC4	P S G G V H H A	Y I D I D I H H G D	A D T	G G G Y						
Class II	HDAC5	R P P G - H H A	I Y D V D Y H H G N	F D A	E G G H						
	HDAC6(a)	R P P G - H H A	I Y D V D Y H H G N	F D A	E G G H						
	HDAC6(b)	R P P G - H H A	I Y D V D Y H H G Q	F D A	E G G Y						
	HDAC7	R P P G - H H A	I Y D V D Y H H G N	F D A	E G G H						

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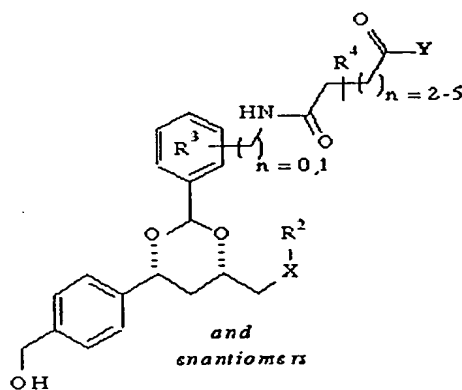
Figure 14

14A



(4 R¹ groups + 2 R² groups) ↔ 10 R³ groups ↔ 2 (enantiomers) ↔ 4 amines = 640 compounds

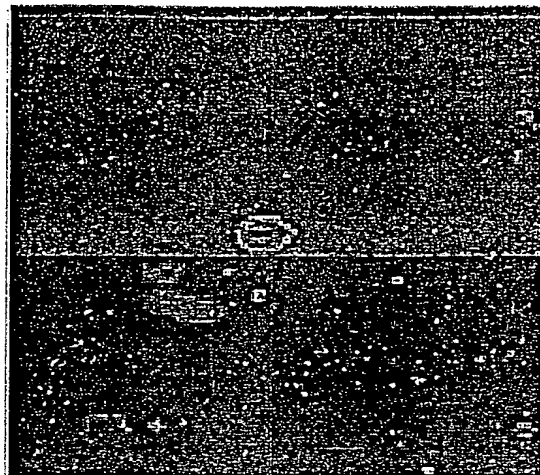
14B



where Y = OH, NHOH, o-aminoaniline

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Figure 15



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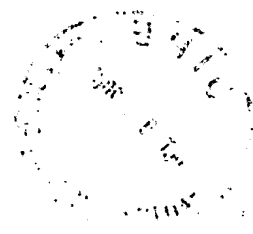
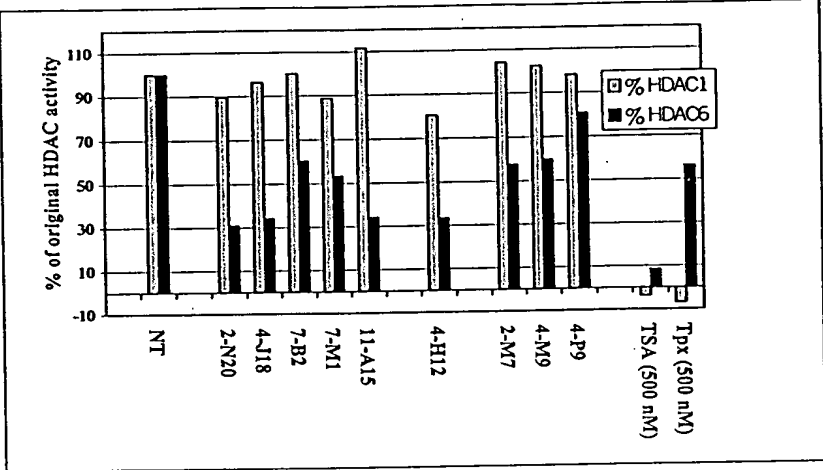


Figure 16



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Figure 17

